

COMAL Standards Meeting

by Brian Grainger

Introduction by TeleNova

[Editors note: everyone knows that we need a COMAL Standards Group - but since little is heard about them, stories like this can result. Reprinted from ICPUG, Vol 8 No 5.]

The story so far ...

In the (BASIC) beginning was the word, and the word was GOTO...

Now, Borge (Christensen) looked upon the word and saw that it was bad (or at least if not all bad, then certainly much overused). And Borge did address the multitude saying, "Behold! I have invented a new word, and the word is PROC!"

Now the people looked upon this word, and they saw that it was good. Thus they embraced the word, and built a new language to house it.

And it came to pass that a True COMAL Deity entered upon the scene and established a group of disciples who were all similar worshippers of the one True Language.

Now for many years this group did use up much company expenses in mutual back-slapping and (liquid) celebration of The Language.

But lo! They did not notice that the BASIC reason for The Language was disappearing because it had built up even more followers, who were not all living on expense accounts. And so it came to pass that the True COMAL Deity lost interest in the language, saying "whosoever wishes to lead the worship may do so, but there's nothing in it for me". And there was much wailing and gnashing of teeth, and the

disciples spoke amongst themselves saying "why has our God forsaken us, and what's more, how are we going to preserve our biannual expense account jollies?"

And so the disciples travelled to the land of Bagpipes and Sporrans (and more importantly, Scotch) in order to debate these matters, hoping that it wouldn't be the last time, but making sure that if it was they made the most of it...

That is a humorous account of events up to the time of the 1985 COMAL Standardization meeting as written by representatives of TeleNova, a Swedish company. The rumours of Borge deserting COMALites were exaggerated somewhat, as were the thoughts that the 1985 meeting may have been the last. In August, the 1986 Standardization meeting was held in Denmark and I accepted the invitation to attend, representing users of COMAL in England. I hasten to add it was at my own expense.

I went to Denmark for the two and a half days of meetings, not sure of what to expect but with eager anticipation. At long last I was participating in how the language would develop.

There are two groups involved, the Standardization Group, and the Development Group. The latter consists of all those attending and the purpose is to discuss the various proposals that may be put forward for changes to COMAL. In order for the Development Group to accept a proposal, two thirds of members present must support it. Agreement on a proposal means that it can be carried forward to the Standardization Group, where the ultimate decision is made. The Standardization Group consists of implementors of COMAL only. Other attenders, such as myself, can only

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[illegible]

observe at the Standardization Group meetings. We have no voting rights. For the Standardization Group to accept a proposal, four fifths of members present have to support it.

The majorities required to get proposals accepted may seem rather high but this way ensures the COMAL language does not get changed on a whim. Certainly there is no universal agreement among the implementors on how the language should develop. It is my feeling that because an almost universal level of support is required to accept a proposal, the user is protected. User programs do not become obsolete as the language develops due to lack of compatibility between one version of the language and the next.

In Denmark, during the three days, there was an attendance of around 20, from 5 countries, representing 6 implementors, and the users of England, Scotland, and Eire. In addition, the writers of the manual for the COMAL cartridge (*Cartridge Tutorial Binder*) put in an appearance, as did Borge himself.

Having only come into contact with one implementing previously, UniComal, who produced the COMAL cartridge for the C64, it was fascinating to meet some of the others. The views expressed varied widely. The very conservative wanted to make few changes to the language in case they made ANY existing program obsolete. On the other hand, the radicals wanted to make lots of changes so as to provide facilities in COMAL for any purpose imaginable! It is amazing that anything gets agreed at all, but the result of the meeting was to steer a course between the two extremes, with some additions being agreed and more to be put to a vote at a later time.

A word about the various implementors of COMAL who were present may be of interest to those who think that COMAL is limited to Commodore machines.

UniComal need no introduction. Of all the implementors, they have decided to go for the international market with versions for Commodore and IBM.

RegenCentralen (RC) who have implemented COMAL on the RC Piccolo, a machine much used in Danish Schools.

TeleNova who have implemented COMAL on Compis computers which are mainly used in Sweden.

Dansk Data Elektronik have implemented COMAL under the Unix operation system, but, again, seem to be limited to Denmark.

Dench Systems are a company working with UniComal developing COMAL in real-time applications.

Finally, and the biggest surprise to me, was Dalgasoft, who have COMAL implemented on the Amstrad 464 and 6128 and are working on a CP/M version.

John Clack, a user representative at the meetings, uses COMAL on a VAX.

Apart from the VAX version, all the versions were on display in what became known as the Hornstrup Computer Centre (Hornstrup being the place where the meeting took place). One does tend to get rather isolated in one's thinking in using only Commodore machines, and an important outcome of the meeting for me was to see other versions being used. The subtle differences could be weighed up, but the value of a standard and usefulness of the

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```
DIM a$ OF 2
PRINT "Shall I reformat the harddisk?"
REPEAT
  a$=KEY$
UNTIL a$ IN "yYnN"
IF a$ IN "yY" THEN PASS "FORMAT C:"
```

(On an IBM PC, KEY\$ returns an empty string when no key is pressed! On a C64, CHR\$(0) is returned!)

Further Reference:

*COMAL Implementations, COMAL Today #11,
page 10*
*COMAL Standards Conference, COMAL Today
#7, page 8* ■

PSALM 23

COMAL is my language; I shall not want.


It maketh me to structure my thoughts;
It sorteth and indenteth my program.

It RESTOREth my DATA;
It leadeth me in paths of readability for
its own sake.

Yea, though I walk through the valley in
the shadow of BASIC,
I will fear no GOTO:
for it is state-of-the-art;
its PROCs and its FUNCS they comfort me.

It preparerth an unassigned data space
before me in the absence of my values:
It reporteth my errors at source, even if
my stack runneth over.

Surely goodness and reliability shall
follow me all the days of my life:
and I will dwell in its syntax forever.

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Collected by Brian Grainger from the 1986
COMAL Standardization meeting. 

Extra Programs

CAPITOLS

Richard and Todd Shagott have concocted an educational game driver called *can'you'tell'me*. The program uses the file *dat.quiz'menu* which contains the names and data files of each available game. They included games to guess 50 U.S. capitols and 315 world capitols. The data for these games is in *dat.capitols* and *dat.world'cap*. To play the games:

RUN "can'you'tell'me"

The uniqueness of this program is that once it asks the question, it randomly begins to insert letters into the answer, one at a time after a short delay. It decrements the possible number of points available as each letter is inserted. All questions are randomly selected, and then removed from the selection pool only if answered correctly.

In actual play, the `<space>` bar interrupts play for the purposes of entering a guess, pausing for a break, or quitting. The games are on *Today Disk #15*.

3D AIRPLANE REVISITED

Today Disk #15 contains updated versions (0.14 and 2.0) of the *airplane* programs by Herbert Denaci from *COMAL Today #13*. They are *1520-3d'airplane* and *chip.airplane*. The 2.0 version first draws the airplane on the hi-res screen. It then checks to see if the program is running on a c128 with Super Chip. If it is, then it draws the airplane on the ultra hi-res (640*200) screen (switch your monitor to 80 column mode to view the plane). ■